

What I claim as my invention is:

1. A method for initializing a customer premises telecommunications hub having a link to a central office comprising:

a) upon power up of the hub, sending a DHCP request to a central office

5 DHCP server,

b) sending a configuration file name, a domain name of a configuration file server and an IP address of a domain name server from the central office DHCP server to the hub,

c) sending a request for an IP address of a configuration file server from  
10 the hub to the domain name server,

d) sending the IP address of a configuration file server from the domain name server to the hub,

e) sending a request for the configuration file from the hub to the configuration file server, and

f) sending the configuration file, including a binary code file name, from  
15 the configuration file server to the hub.

2. The method of Claim 1 further including:

parsing the configuration file in the hub;

sending a request for the binary code from the hub to the configuration file

20 server,

sending the binary code from the configuration file server to the hub, and  
storing the binary code in memory in the hub.

3. The method according to Claim 2, further including:

restarting the CPU in the hub.

4. The method according to Claim 3 further including

sending a request for the configuration file from the hub to the configuration file server,

5 sending the configuration file, including a binary code file name, from the configuration file server to the hub, and

parsing the configuration file in the hub.

5. The method of Claim 1 further including;

10 in step b), sending a domain name which refers to a plurality of configuration file servers and IP addresses of a plurality of domain name servers.

6. The method of Claim 5 further including;

15 in step c), if the request to a first domain name server fails, resending the request to the first domain name server for a preselected number of retry attempts, and, if all such retry attempts fail, sending the request to a second of said plurality of domain name servers.

7. The method of Claim 5, further including:

in step c), sending a request for the IP addresses of the plurality of configuration file servers.

8. The method of Claim 7, further including:

20 in step e), if the request to a first configuration file server fails, resending the request to the first configuration file server for a preselected number of retry attempts, and, if all such retry attempts fail, sending the request to a second of said plurality of configuration file servers.

9. A method for providing configuration files and binary code to a customer premises telecommunications hub having a link to a central office comprising:
- a) upon power up of the hub, sending a DHCP request to a central office
- 5 DHCP server;
- b) sending a configuration file name, a domain name of a configuration file server and an IP address of a domain name server from the central office DHCP server to the hub;
  - c) sending a request for an IP address of a configuration file server from
- 10 the hub to the domain name server,
- d) sending the IP address of a configuration file server from the domain name server to the hub,
  - e) sending a request for the configuration file from the hub to the configuration file server,
- 15 f) sending the configuration file, including a binary code file name, from the configuration file server to the hub,
- g) parsing the configuration file in the hub;
  - h) sending a request for the binary code from the hub to the configuration file server,
- 20 i) sending the binary code from the configuration file server to the hub, and
- j) storing the binary code in memory in the hub.
10. A method according to Claim 9, further including:
- restarting the CPU in the hub,

sending a request for the configuration file from the hub to the  
configuration file server,

sending the configuration file, including a binary code file name, from the  
configuration file server to the hub, and

5 parsing the configuration file in the hub.

11. The method of Claim 9 further including;

in step b), sending a domain name referring to a plurality of configuration  
file servers and IP addresses of a plurality of domain name servers.

12. The method of Claim 11 further including;

10 in step c), if the request to a first domain name server fails, resending the  
request to the first domain name server for a preselected number of retry  
attempts, and, if all such retry attempts fail, sending the request to a second of  
said plurality of domain name servers.

13. The method of Claim 11, further including:

15 in step c), sending a request for the IP addresses of the plurality of  
configuration file servers.

14. The method of Claim 13, further including:

20 in step e), if the request to a first configuration file server fails, resending  
the request to the first configuration file server for a preselected number of retry  
attempts, and, if all such retry attempts fail, sending the request to a second of  
said plurality of configuration file servers.

15. A system for initializing a customer premises telecommunications hub having a link to a central office comprising:

a DHCP server in the central office,

a configuration and binary file server accessible over the Internet,

5 means in the hub for detecting system power up and sending to the DHCP server in the central office a DHCP request for a configuration file name, a domain name of the configuration and binary file server and an Internet address for a domain name server, and

10 means in the hub for requesting the configuration file from the configuration and binary file server.

16. The system of Claim 15 further including;

means for reading a binary code file name from the configuration file, comparing it to the name of a binary code file in the processor memory, and, if the names are different, for requesting a binary file from the configuration and  
15 binary file server.

17. A customer premises telecommunications hub comprising:

means for detecting system power up and sending to a server in a central office a DHCP request for a configuration file name, a domain name for a configuration and binary file server and an Internet address for a domain name  
20 server, and

means for requesting the configuration file from the configuration and binary file server.

18. The hub of Claim 17 further including;

means for reading a binary code file name from the configuration file, comparing it to the name of a binary code file in the hub and, if the names are different, for requesting a binary file from the configuration and binary file server.

- 5 19. The hub of Claim 18 further including;

means for storing a binary file in the hub and for resetting the hub.

[illegible]